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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/612,596	07/02/2003	Reed F. Busse	GEMS8081.160	4672
7590 06/29/2005		EXAMINER		
Ziolkowski Patent Solutions Group, LLC 14135 North Cedarburg Road			VARGAS, DIXOMARA	
Mequon, WI 5			ART UNIT	PAPER NUMBER
			2859	
			DATE MAILED: 06/29/2005	ς.

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Supplemental	10/612,596	BUSSE, REED F.	
Notice of Allowability	Examiner	Art Unit	
	Dixomara Vargas	2859	
The MAILING DATE of this communication appeared all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communical IGHTS. This application is subje	application. If not included ation will be mailed in due cours	se. THIS
1. This communication is responsive to <u>Amendment filed 12/</u>	<u>20/04</u> .		
2. The allowed claim(s) is/are <u>1-23</u> .			
3. \boxtimes The drawings filed on <u>02 July 2003</u> are accepted by the Ex	aminer.		
4.	e been received. e been received in Application Not cuments have been received in the communication to file a reserved. In this communication to file a reserved. In this application. In the second of this application. In this application of this application. In this application of this application. In this application of the submitted. In this application of this application of the submitted. In this application of this application of the submitted. In this application of this application of the submitted of the submitted. In this application of this application to file a reserved of this application.	his national stage application from the ply complying with the requirent ER'S AMENDMENT or NOTIC aration is deficient. TO-948) attached e Office action of	nents
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	ne header according to 37 CFR 1.1	21(d).	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 	SIT OF BIOLOGICAL MATERIA FOR THE DEPOSIT OF BIOLOG	L must be submitted. Note the Control of the Land of the Control of the Land	he
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0. Paper No./Mail Date	6. ☐ Interview Summa Paper No./Mail	Date)
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's State 9. □ Other	ment of Reasons for Allowance	e

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment of claim 19 was given in a telephone interview with Jack M. Cook on March 15, 2005. Authorization for this examiner's amendment of claim 5 was given in a telephone interview with Mark Wilkinson on June 22, 2005.

The application has been amended as follows:

In claim 5, delete "5" and insert -- 4-- after "claim".

In claim 19, delete "19" and insert -- 18 -- after "claim".

Allowable Subject Matter

- Claims 1-23 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:
 - a. With respect to claim 1, the claim has been found allowable over the prior art of record because the prior art of record fails to teach or fairly suggest an MR pulse sequence designated to reduce induce RF power with multi-phase flip angles comprising a ramp down phase having a number of pulses with a flip angle less than of the flip angle of the initial contrast in combination with the remaining limitations of the claim.

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b. With respect to claim 11, the claim has been found allowable over the prior art of record because the prior art of record fails to teach or fairly suggest a method of reducing RF power induced in a patient in high field MR imaging comprising the step of applying a set of RF pulses with varying flip angles that are lower than that applied before the given TE in combination with the remaining limitations of the claim.

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- c. With respect to claim 18, the claim has been found allowable over the prior art of record because the prior art of record fails to teach or fairly suggest an MRI apparatus comprising a computer programmed to apply a set of refocusing RF pulses having lower nutation than that of the high nutation RF pulses in combination with the remaining limitations of the claim.
- d. With respect to claims 2-10, 12-17 and 19-23, the claims are allowed due to their dependency on claims 1, 11 and 18 above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dixomara Vargas whose telephone number is (571) 272-2252. The examiner can normally be reached on Monday to Thursday from 8:00 am. to 4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on (571) 272-2245. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dixomara Vargas

Art Unit 2859 June 27, 2005

> BRIJ SHRIVASTAV PIMARY EXAMINED